

Table of Contents

VOLUME 69, 1988

MAIN ARTICLES

Eyeblink-related potentials (EEG 01893)	
P. Berg and M.B. Davies (F.R.G.)	1
EEG and evoked potentials in comatose patients with severe brain damage (EEG 01971)	
T. Ganes and T. Lundar (Norway)	6
Serial recording of median nerve stimulated subcortical somatosensory evoked potentials (SEPs) in developing brain death (EEG 01854)	
H. Buchner, A. Ferbert and W. Hacke (F.R.G.)	14
Quantifying deficiencies associated with Parkinson's disease by use of time-series analysis (EEG 03391)	
A. Abdel-Malek, C.H. Markham, P.Z. Marmarelis and V.Z. Marmarelis (U.S.A.)	24
Relationship between single-unit activity and the electroencephalogram in a neocortical, cobalt-induced epileptogenic focus (EEG 03296)	
S. Veregge and J.D. Frost, Jr. (U.S.A.)	34
Brain-stem facilitation of electrically evoked visual cortical response in the cat. Source, pathway and role of nicotinic receptors (EEG 03331)	
R.W. Adams, G.A. Lambert and J.W. Lance (Australia)	45
'Cat P300' disappears after septal lesions (EEG 03332)	
J.B. Harrison, J.S. Buchwald, K. Kaga, N.J. Woolf and L.L. Butcher (U.S.A. and Japan)	55
Motor and somatosensory evoked potentials recorded from the rat (EEG 03355)	
M.G. Fehlings, C.H. Tator, R.D. Linden and I.R. Piper (Canada)	65
Development of the EEG of school-age children and adolescents. I. Analysis of band power (EEG 01951)	
T. Gasser, R. Verleger, P. Bächer and L. Sroka (F.R.G.)	91
Development of the EEG of school-age children and adolescents. II. Topography (EEG 01998)	
T. Gasser, C. Jennen-Steinmetz, L. Sroka, R. Verleger and J. Möcks (F.R.G.)	100
Diagnostic efficacy of computerized spectral versus visual EEG analysis in elderly normal, demented and depressed subjects (EEG 03384)	
R.P. Brenner, C.F. Reynolds, III and R.F. Ulrich (U.S.A.)	110
Frequency analysis and topographic mapping of EEG and evoked potentials in epilepsy (EEG 03306)	
M.R. Nuwer (U.S.A.)	118
Sleep disturbances in man during different compression profiles up to 62 bars in helium-oxygen mixture (EEG 01985)	
J.-C. Rostain, M.C. Gardette-Chauffour, J.P. Gourret and R. Naquet (France)	127
Evoked potentials in basilar artery thrombosis: correlation with clinical and angiographic findings (EEG 01950)	
A. Ferbert, H. Buchner, H. Brückmann, H. Zeumer and W. Hacke (F.R.G.)	136
Quantitative analysis of reversible dysfunction of brain-stem midline structures caused by disturbance of basilar artery blood flow with the auditory brain-stem responses (EEG 03362)	
S. Wada, S. Matsuoka, E. Urasaki and C. Yadomi (Japan)	148
Tonotopic organization of the human auditory cortex revealed by transient auditory evoked magnetic fields (EEG 01996)	
C. Pantev, M. Hoke, K. Lehnertz, B. Lütkenhöner, G. Anogianakis and W. Wittkowski (F.R.G., Greece)	160
The effects of nitrous oxide on P300 and reaction time (EEG 03359)	
B. Fowler, B. Kelso, J. Landolt and G. Porlier (Canada)	171
Recurrent inhibition of firing motoneurones in man (EEG 01935)	
L.P. Kudina and R.E. Pantseva (U.S.S.R.)	179
Short-term variability in EEG frequency analysis (EEG 03438)	
B.S. Oken and K.H. Chiappa (U.S.A.)	191

Origin and clinical significance of subcortical components in short-latency somatosensory evoked potentials in children (EEG 03372)	
Y. Tomita, T. Tanaka, N. Kamimura, N. Shimozawa, S. Takashima and K. Takeshita (Japan)	199
Scalp response topography to dynamic random dot stereograms (EEG 03326)	209
R.A. Neill and B. Fenelon (Australia)	209
Event-related potential asymmetries during the reading of sentences (EEG 03299)	
M. Kutas, C. Van Petten and M. Besson (U.S.A.)	218
Distribution of slow brain potentials related to motor preparation and stimulus anticipation in a time estimation task (EEG 01922)	
C.H.M. Brunia and E.J.P. Damen (The Netherlands)	234
Effects of the amount of stimulus information processed on negative event-related potentials (EEG 03281)	
W. Ritter, R. Simson and H.G. Vaughan, Jr. (U.S.A.)	244
Intraparenchymatous ponto-mesencephalic field distribution of brain-stem auditory evoked potentials in man (EEG 02027)	
G. Curio and F. Oppel (Germany)	259
Magnetic determination of the spatial extent of a single cortical current source: a theoretical analysis (EEG 03237)	
J.P. Wikswo, Jr. and B.J. Roth (U.S.A.)	266
Effects of halothane dose and stimulus rate on canine spinal, far-field and near-field somatosensory evoked potentials (EEG 03369)	
K. Hogan, M. Gravenstein and F. Sasse (U.S.A.)	277
EEG coherence functions for normal newborns in relation to their sleep state (EEG 02022)	
J.B.M. Kuks, J.E. Vos and M.J. O'Brien (The Netherlands)	295
Quantitative EEG changes due to hypobaric hypoxia in normal subjects (EEG 02038)	
V. Kraaijer, A.C. Van Huffelen and G.H. Wieneke (The Netherlands)	303
Somatosensory conduction in vitamin B12 deficiency (EEG 02060)	
D. Zegers de Beyl, F. Delecluse, P. Verbanck, S. Borenstein, P. Capel and E. Brunko (Belgium)	313
The effect of focal interictal spikes on perception and reaction time. I. General considerations (EEG 03418)	
D.A. Shewmon and R.J. Erwin (U.S.A.)	319
The effect of focal interictal spikes on perception and reaction time. II. Neuroanatomic specificity (EEG 03419)	
D.A. Shewmon and R.J. Erwin (U.S.A.)	338
Suppression of recurrent generalized tonic-clonic seizure discharges by intraventricular perfusion of a calcium antagonist (EEG 02024)	
J. Walden and E.-J. Speckmann (F.R.G.)	353
Role of the forebrain commissure and hemispheric independence in photosensitive response of epileptic baboon, <i>Papio papio</i> (EEG 02068)	
H. Fukuda, A. Valin, P. Bryère, D. Riche, J.A. Wada and R. Naquet (France)	363
Several attention-related wave forms in auditory areas: a topographic study (EEG 01984)	
M.H. Giard, F. Perrin, J. Pernier and F. Peronnet (France)	371
Methodology for non-invasive mapping of human motor cortex with electrical stimulation (EEG 03493)	
L.G. Cohen and M. Hallett (U.S.A.)	403
Analysis of muscle responses elicited by transcranial stimulation of the cortico-spinal system in man (EEG 02032)	
R. Benecke, B.-U. Meyer, M. Göhmann and B. Conrad (F.R.G.)	412
Magnetic responses of the human auditory cortex to noise/square wave transitions (EEG 02033)	
J.P. Mäkelä, R. Hari and L. Leinonen (Finland)	423
The influence of vibration on the excitability of alpha motoneurones (EEG 02096)	
D. Claus, K.R. Mills and N.M.F. Murray (U.K.)	431
The cyclic alternating pattern sequences in the dynamic organization of sleep (EEG 02067)	
M.G. Terzano, L. Parrino and M.C. Spaggiari (Italy)	437
Compensatory reactions in forward fall: are they initiated by stretch receptors? (EEG 02043)	
M.C. Do, Y. Brenière and S. Bouisset (France)	448
Brain slow potential and ERP changes associated with operator load in a visual tracking task (EEG 02017)	
W.C. McCallum, R. Cooper and P.V. Pocock (U.K.)	453
Changes in pyramidal tract conduction with experimental brain-stem ischaemia in the monkey (EEG 02028)	
N.M. Branston, P. Bentivoglio, F. Momma and L. Symon (U.K.)	469
Effects of acoustic and sensory variables on masking tuning curves of the offset auditory brain-stem response in the rodent (EEG 03430)	
K.R. Henry (U.S.A.)	476
Time course of night sleep EEG in the first year of life: a description based on automatic analysis (EEG 02090)	
F. Bes, P. Baroncini, C. Dugovic, I. Fagioli, H. Schulz, B. Franc and P. Salzarulo (France, F.R.G.)	501

TABLE OF CONTENTS 69, 1988

619

Morphology of spikes in spike-and-wave complexes (EEG 03339)	
W.T. Blume and J.F. Lemieux (Canada)	508
Long latency evoked potential components in human slow wave sleep (EEG 01967)	
J. Ujszászi and P. Halász (Hungary)	516
Frequency and location specificity of the human vertex N1 wave (EEG 02034)	
R. Näätänen, M. Sams, K. Alho, P. Paavilainen, K. Reinikainen and E.N. Sokolov (Finland, U.S.S.R.)	523
Spontaneous EEG spikes in the normal hippocampus. II. Relations to synchronous burst discharges (EEG 03335)	
S.S. Suzuki and G.K. Smith (Canada)	532
Spontaneous EEG spikes in the normal hippocampus. III. Relations to evoked potentials (EEG 03336)	
S.S. Suzuki and G.K. Smith (Canada)	541
Relationships between quantitative EEG measures and pharmacodynamics of alfentanil in dogs (EEG 02088)	
A. Wauquier, M. De Ryck, W. Van den Broeck, J. Van Loon, W. Melis and P. Janssen (Belgium)	550
Analysis of amplitude and area of concentric needle EMG motor unit action potentials (EEG 03385)	
S.D. Nandedkar, P.E. Barkhaus, D.B. Sanders and E.V. Stålberg (U.S.A., Sweden)	561
Surface myoelectric signal cross-talk among muscles of the leg (EEG 02023)	
C.J. De Luca and R. Merletti (U.S.A., Italy)	568
Excitability of firing motoneurones tested by Ia afferent volleys in human triceps surae (EEG 01934)	
L.P. Kudina (U.S.S.R.)	576
Filtering characteristics of ambulatory EEG recording systems (EEG 03348)	
E. Shwedyk, F. Xiong, P.B. Jayakar and S.S. Seshia (Canada)	589

SHORT COMMUNICATIONS

The cerebral origin of the alpha rhythm (EEG 03439)	
K. Hogan and J. Fitzpatrick (U.S.A.)	79
Changes in spontaneous activity of medialis dorsalis thalamic neurones during sleep and wakefulness (EEG 02095)	
L. Imeri, M.E. Moneta and M. Mancia (Italy)	82
Purine receptors and kynurenic acid modulate the somatosensory evoked potential in rat cerebral cortex (EEG 02059)	
J.I. Addae and T.W. Stone	186
Objective evaluation of differences in patterns of EEG topographical maps by Mahalanobis distance (EEG 03394)	
J. Tatsuno, H. Ashida and A. Takao (Japan)	287
Scalp current density fields: concept and properties (EEG 02115)	
J. Pernier, F. Perrin and O. Bertrand (France)	385
Spinal somatosensory evoked potentials following segmental sensory stimulation. A direct measure of dorsal root function (EEG 03441)	
M. Seyal, G.A. Palma, L.S. Sandhu, Y.P. Mack and J.M. Hannam (U.S.A.)	390
Spinal stretch reflex and cortical evoked potential amplitudes versus muscle stretch amplitude in the monkey arm (EEG 03515)	
J.R. Wolpaw and R. Dowman (U.S.A.)	394
Operant conditioning of primate spinal reflexes: effect on cortical SEPs (EEG 03563)	
J.R. Wolpaw and R. Dowman (U.S.A.)	398
A 6-pole filter for improving the readability of muscle contaminated EEGs (EEG 03010)	
J.R. Ives and D.L. Schomer (U.S.A.)	486
A topographic background symmetry display for comparison with routine EEG (EEG 03586)	
B.J. Fisch, T.A. Pedley and D.L. Keller (U.S.A.)	491
Common reference coherence data are confounded by power and phase effects (EEG 03487)	
G. Fein, J. Raz, F.F. Brown and E.L. Merrin (U.S.A.)	581
Recovery of peripheral and central responses to median nerve stimulation (EEG 03505)	
R.C. Reisin, D.S. Goodin, M.J. Aminoff and M.M. Mantle (U.S.A.)	585

BOOK REVIEWS

Great and desperate cures. The rise and decline of psychosurgery and other radical treatments for mental illness by E.S. Valenstein	
	85
Surgical treatment of the epilepsies edited by J. Engel, Jr.	
	86
Fundamental mechanisms of human brain function edited by J. Engel, Jr., G.A. Ojemann, H.O. Lüders and P.D. Williamson	
	87

Electrodiagnosis. An anatomical and clinical approach by J. Chu-Andrews and R.J. Johnson	88
Atlas of mobile long-term EEG recordings (Atlas mobiler Langzeit-EEG-Ableitungen) by H. Stefan and W. Burr	88
Advances in epileptology. XVI. Epilepsy international symposium edited by P. Wolf, M. Dam, D. Janz and F.E. Dreifuss	89
The EEG of drowsiness by J. Santamaria and K.H. Chiappa	291
Clinical problems of brain-stem disorders edited by K. Kunze, W.H. Zangemeister and A. Artl	292
Epilepsy edited by A. Hopkins	292
A history of neurophysiology in the 19th century by M.A.B. Brazier	495
Electroencephalography, 2nd edition edited by E. Niedermeyer and F. Lopes da Silva	496
Sleep, aging and related disorders. Interdisciplinary topics in gerontology, Vol. 22 edited by W. Emser, D. Kurtz and W.B. Webb	497
Current topics in research on synapses, Vol. 4 edited by D.G. Jones	497
Excitatory amino acid transmission. Neurology and neurobiology, Vol. 24 edited by T.P. Hicks, D. Lodge and H. McLennan	498
Epilepsy and the reticular formation edited by G.H. Fromm, C.L. Faingold, R.A. Browning and W.M. Burnham	498
Neuroplasticity. A lifespan approach edited by T.L. Petit and G.O. Ivy	594
The London symposia. Electroenceph. clin. Neurophysiol., Suppl. 39 edited by R.J. Ellingson, N.M.F. Murray and A.M. Halliday	595
AIDS and the nervous system edited by M.L. Rosenblum, R.M. Levy and D.E. Bredesen	596
The management of motor neurone disease edited by G.M. Cochrane	597
Books received, but not fully reviewed	597, 598
<i>Society Proceedings</i>	2P, 30P, 35P, 40P, 44P, 46P, 48P, 53P, 58P, 61P, 64P, 71P, 76P
<i>Acknowledgements</i>	599
<i>Index of Authors to Volume 69, 1988</i>	600
<i>Index of Subjects to Volume 69, 1988</i>	611
<i>Table of Contents to Volume 69, 1988</i>	617